

# American Zinc Products Pond progress meeting

Dec 1<sup>st</sup> 2021



# Agenda

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1. Site evaluation.
2. Site remediation.
3. Review action tracker.
4. Update on AOC.
5. General and closure.

# 1. Site Evaluation Status

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- Dye injection study results. See separate results.
- Proposed well locations for drilling. See separate maps.

## 2. Site remediation

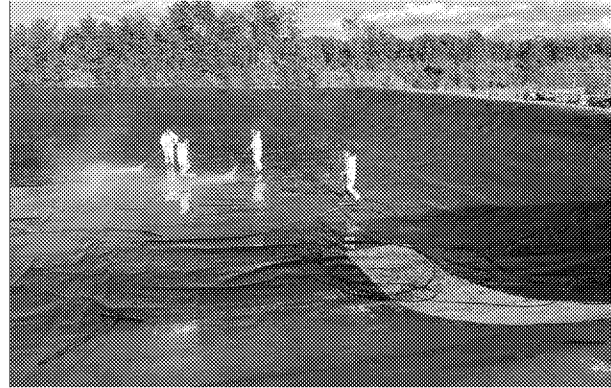
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### **West ponds:**

- Phase 1 soil removal completed.
- Liquid recovery systems being pumped on a regular basis. See log attached to weekly report.
- Zn-B-gone trial. NCDEQ letter to EPA being reviewed, before continuing with trial.

### **East ponds:**

- Inspection and contractor work – see weekly report for details.



Limited volume of sediment removed and liners pressure-washed in preparation for inspection

## 2. Site remediation – Off-spec effluent pond

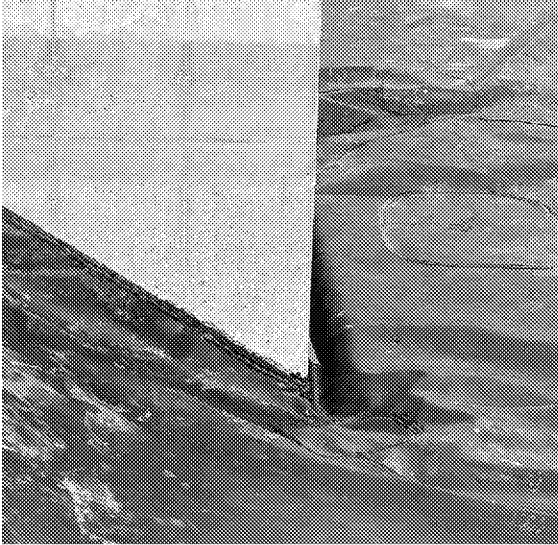
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No signs of chemical attack of concrete and liner seal with concrete appears intact.

## 2. Site remediation – East storm water pond inspection

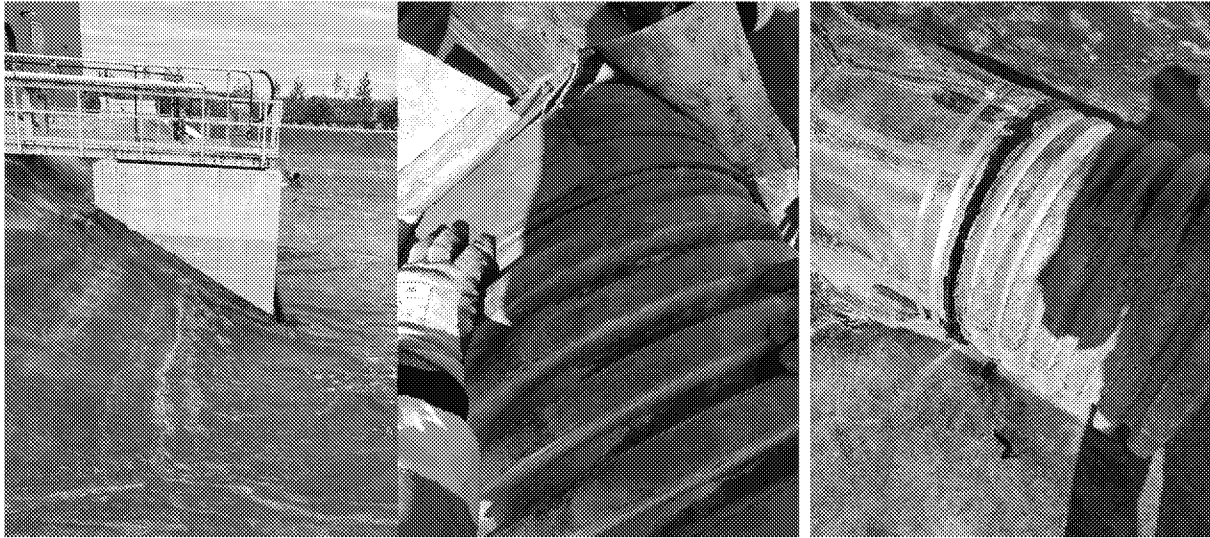
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No signs of chemical attack of concrete and liner seal with concrete appears intact.

## 2. Site remediation – East storm pond

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Installed new gasket and added additional banding/caulking at storm water inlet pipe.

### 3. Action tracker

Item #	Action	Responsible	Date added	Target completion date	Comments
1	Email to presentation to call participants.	Phil		24-Sep-21	Complete (9/24)
2	Schedule weekly update calls and include DWR on the next one.	AZP (Charlie)		23-Sep-21	Complete (9/24)
3	Gather all data from ravine 4 and send to EPA (Ken).	Phil		24-Sep-21	Complete (9/24)
4	Collect surface water / sediment samples at confluence w/ Broad River.	Phil		TBA	Complete (9/28)
5	Attempt sampling of sediment in west storm water pond.	Phil		1-Oct-21	Complete (9/28)
6	Sample liquid in west storm water pond.	EnSafe		1-Oct-21	Complete (9/24)
7	Provide Sampling Analysis Plan to EPA.	Phil		24-Sep-21	Complete (9/24)
8	Provide first draft proposal for soil remediation/removal.	Ensafe		1-Oct-21	See item 12
9	Install free liquid recovery system and remove accessible saturated soils in raffinate and maintenance ponds.	AZP (Kobus)		13-Oct-21	Complete
10	<del>Review possible use of bentonite to prevent contamination migration to springs Ravine #4.</del>	<del>EnSafe</del>	<del>-</del>	<del>TBA</del>	<del>Not considered feasible due to concerns over impact on ravine and efficacy.</del>
11	Continue installing monitoring wells for further delineation	EnSafe		TBA	Drilling contractor confirmed for November 25th start.
12	Phase 1 soil remediation	AZP	6-Oct-21	31-Oct-21	Complete.
13	Confirmation sampling of native soil	Ensafe	6-Oct-21	25-Oct-21	Complete.
14	Confirm drilling method and schedule (sonic vs. auger)	Ensafe	6-Oct-21	6-Oct-21	Decision taken to use sonic drilling. Timing to be confirmed.
15	Perform pH and metals sampling and analysis in Ravine #1	EnSafe	6-Oct-21	11-Nov-21	Complete (11/9)
16	Drain storm water pond and sample underneath liner	AZP/Ensafe	14-Oct-21	5-Nov-21	Complete (11/5)
17	Incorporate ongoing monitoring into SAP.	AZP/EnSafe	20-Oct-21	Ongoing	
18	Begin researching in-situ treatment options for UT-4.	AZP/EnSafe	27-Oct-21	TBA	
19	Confirm no 401, 404, or NPDES permit is required for in-situ treatment	AZP / US EPA / NC DEQ	10-Nov-21	25-Nov	
20	Submit rotamine dye application to NC DEQ DWR	AZP	10-Nov-21	17-Nov-21	Complete (11/12)
21	Confirm material (soil, gravel, etc.) between liners in west storm pond.	AZP	10-Nov-21	17-Nov-21	Complete (11/17)
22	Begin investigation of UT-1 contamination source .	AZP / EnSafe	17-Nov-21	29-Nov-21	East storm water and off-spec effluent ponds emptied and inspected
23	Develop a sampling plan for large dirt stock pile and add it to the SAP.	AZP / EnSafe	17-Nov-21	TBA	Under review by Ensafe